

TELEPHONE: 317-276-3334  
TELEFAX: 317-276-3861  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1353 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1353  
US-08-843-309-1

Alignment Scores:

Pred. No.: 1,876-55  
Score: 586.50  
Percent Similarity: 52.928  
Best Local Similarity: 34.998  
Query Match: 25.958

Length: 1353  
Matches: 162  
Conservative: 83  
Mismatches: 177  
Indels: 41  
Gaps: 14

US-09-701-229-2 (1-448) x US-08-843-309-1 (1-1353)

*Handwritten:* Helmin et al  
Sequence 1  
US Pat. 5,834,270  
Murd protein

7 ASPHSphary-----IleValValGlyLeuGlyLysSerGlyMetSerLeu 22  
13 GATCATTTTAAATAAGAAAGTCTTGTAGTTGGCCAAAGTGTGTAATCTGCA 72  
23 ValArgTyrLeuAlaArgGlyLeuProPheAlaValAlaAspThrArg----- 39  
73 GCTCTTTGTCGACAGAGTGCATCTGTGACAGAAATGATGAGGAAACCTTTCGAG 132  
40 GluAsnProGluLeuAlaThrLeuArgAlaGlnTyrProGluValGluValArgCys 59  
133 GACAAATCCAGCGCCCAAGTTCGTGGA-----GAAGGATCAAGTCTTACA 183  
60 GlyGlu-----LeuAspAlaGluPheLeuCysSerAlaArgGluLeuTyr 74  
184 GGTGGCATCTTGTGAACTCTTGATGAGATTGACCTTATGCTGAAA----- 234  
75 ValSerProGluLeuSerLeuArgThrProAlaLeuValGlnAlaAlaAlaGlyVal 94  
235 ---AATCCAGGTATCCCTACAAACAATCCATGATGAAAGGCTTGGCCAAAGAAAT 291  
95 ArgIleSerGlyAspLeuAspLeuPheAlaArgGluAlaValAlaProIleValAlaIle 114  
292 CCAAGTCTTGACGAGGTGAATGGCTTATTTGATTTCAGAAAGCCGATTTTGTATC 351  
115 ThrGlySerAsnAlaLysSerThrValThrThrLeuValGlyGluMetAlaValAla 134  
352 ACAGGATCGAACGCTTAAGACAAACCAACGACTATGATGGGAGATTGCTGCT 411  
135 AspLysArgValAlaValGlyLysLeuGlyThrProAlaLeuAspLeu-----Leu 152  
412 GGGCAACATGCTTTTATCAGGGATATCGGCTATCTCCAGTCAAGTTCCTCAATA 471  
153 AlaAspAspIleGluLeuTyrValLeuGluLeuSerSerPheGlnLeuGluThrCysAsp 172  
472 GCATCAGATTAAGCAACGCTTGTATGAACTTCTTCCAACTCATGAGGTTCACA 531  
173 ArgLeuAsnAlaGluValAlaThrValLeuAsnValSerGluAspHisMetAspArgTyr 192  
532 GAATTCATCCAGATTCGCGTTATTAACAACCTCATGCCAATCATATGACTACAT 591  
193 AspGlyMetAlaAspTyrHisLeuAlaLysHisArgIle-----PheArgGlyAla 209  
592 GGGTCAATTTCTGAATATGATGACAGCCAAAGTGAATATCCAGAACATGACAGCAGCT 651  
210 ArgGlnValValValAsnArgAlaAspAlaLeuThrArgProLeuIleAlaAspThr--- 228  
652 GATTTCCTTGCTTGAACCTTAAATCAAGACTTGGCAAAAGACTTGACTTCCAAAGCAGAA 711

229 -----ValProCysTrpSerPheGlyLeuAsnLysProAspPheLysAlaPheGly 245  
712 GCACTGTTGATCCATTTTCAACA-----CTGAAAGGTTCAT-----GCA 753  
246 LeuIleGluGluAspGlyGlnLysTrpLeuAlaPheGlnPheAspLysLeuLeuProVal 265  
754 GCTTATCTGGAAGGTGCA-----CTTACTTCCCTGCTGAAAGTATGATGCAACCGC 807  
266 GlyGluLeuLysIleArgGlyValIleHisAspTyrSerAsnAlaLeuAlaAlaLeuAlaLeu 285  
808 AATGAATCGCTGTTCCAGGTAGCCACAAATGTCGAATGCGCTTCGACATTTCTGTA 867  
286 GlyHisAlaValGlyLeuProPheAspAlaMetLeuGluAlaLeuLysAlaPheSerGly 305  
868 GCCAAGCTTCGTGATGTGGACAAATCAACATCAAGAAACCTTTTACGCTTGGTGT 927  
306 LeuAlaHisArgCysGlnTrpValArgGluArgGlnGlyValSerTyrTyrAspAspSer 325  
928 GTCAAAACACCGTCTCCAGTTCGTGATGACATCAAGGCTTTAAATCTATATACACAGCT 987  
326 LysAlaThrAsnValGlyAlaAlaLeuAlaIleGluGlyLeuGlyAlaAspIleAsp 345  
988 AATCACTAATATCTTGGCTTACTCAAAACCTTTATCAGATTTGAC-----AAC 1038  
346 GlyLysLeuValLeuLeuAlaGlyLysPheLysGlyAlaValPheHisAspLeuArg 365  
1039 AGCAAGGTGCTGATGATGACAGGTGTTGGACCGTGCATCAATCAATTTGACGAATTCG 1095  
366 GluProValAlaArgPheCysArgAlaValValLeuLeuGlyValArgAspAlaGlyLeuIle 385  
1096 GTGCCAGCATTTACTGACCTCAAGAAAGTGTCTCTGCTGCTCAATTCGCAGAACGCTGTC 1195  
386 AlaGlnAlaLeuGlyAsnAla---ValProLeuValArgValAlaThrLeuAspGluAla 404  
1156 AAGCGGCAAGACAGCAAGGCTGCTGCTTATGTTGGAGCGGACAGATATTGCAATGCG 1215  
405 ValArgGlnAlaAlaGluLeuAlaArgGluLysAspAlaValLeuLeuSerProAlaCys 424  
1216 ACCCGCAAGGCTTATGACCTTGCACACAGAGATGTTGTTCTTATGCTCGCCAAAT 1275  
425 AlaSerLeuAspMetPheLysAsnPheGluLysArgGlyAlaGluPheAlaValAlaVal 444  
1276 GCCAGCTGGATATGATGCTAATCAAGTACCTGCGCAGCCTTTTATCGACACAGTA 1335  
445 GluGluLeu 447  
1336 GCGGAGTTA 1344

Search completed: August 14, 2003, 09:37:52  
Job time: 1636 sec

SEQ ID 2

ALIGNMENTS

RESULT 1

US-09-252-991A-7702

Sequence 7702, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 7702

LENGTH: 1371

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-7702

Alignment Scores:

Pred. No.:

0

Score:

448.00

Percent Similarity:

100.00%

Best Local Similarity:

100.00%

Query Match:

100.00%

DB:

4

Length:

1371

Matches:

448

Conservative:

0

Mismatches:

0

Indels:

0

Gaps:

0

US-09-701-229-2 (1-448) x US-09-252-991A-7702 (1-1371)

Qy

1 MetSerLeuIleAlaSerAspHisPheArgIleValValGlyLeuGlyLysSerGlyMet 20

Db

25 ATGAGCCTGATCGCCTCCGACCACTTCCGCATCGTTGTCGGCCTCGGCAAGAGCGGCATG 84

Applicant

Issued Patent



Db	978	AGACACGTGACCAACCTGGTGGGCAAAATGGCGGTGGCGGGCGACAAACCGTGGCCGTC	912
OY	141	GLYGLYASNLEUGLYTHRPROALAENASPLEULENULAASPAPILEGULEUTYRVAL	160
Db	918	GGGGGCAACCTGGGCAACCCGGCGGCTGCACCTGCTGGCGGACGACATCGACCTGACGTG	859
OY	161	LEUGLULENSETSERPHEGILEUGLILUTHRCYSASPARGLEUAANLALGLVALALATHR	180
Db	858	TTGGACCTGTGAGGCTCCAGCTGGAACTGCGATGCGCTCAACGGCGAGGTGGCACCC	799
OY	181	VALLEUAANVALSETGLUNASPHISMETASPARGLTYRASPGLYMETALAASPTYRHLSEN	200
Db	798	GTCGTACAGCTGAGGCAACCATATGATGCTCTACAGAGGCAATGCTGACTACCACTTG	739
OY	201	ALALYSHISARGILEPHEARGLYLALARGLVALVALVALAANARGALAASPAALALEU	220
Db	738	GCCAAACACCGGATCTCCCGCGGTGCCCGCAAGCTCGGTGATATCGCGCGGATGCCCTTG	679
OY	221	THARGPROLEULEALASPHERVALPROCYSTRPSPERPHEGLYLEUAANLYSPROASP	240
Db	678	ACCCGACCGCTGATCCCGATACCTGGCGGTGGTGTTCGGCCGCAACAGCCGAC	619
OY	241	PHELYSALAPHEGLYLEUILLGLUNASPGLYGLNLYSTRIPLEUALAPHEGLINPHEASP	260
Db	618	TTCAAGGCTTGGCGCCTCATGAGGAAACGGCCCAAGTAGTGCGGCTTCCACTTGAC	559
OY	261	LYSLEULENPROVALIGLYLULENLYSILEARGLYALAHISANTYRSERAAANLALALEU	280
Db	558	AAACCTCTCCCGGTGGCGAATCGAATGATCCGTGGCCGCCCAACATCTTCCAAAGCGGCTC	499
OY	281	ALALALSERVALLEUGLYHISALAYALGLYLEUPROPHASPALETTIUGLYALALEU	300
Db	498	GCGCGCCCTGGCCTGGCCATCGCGTCCGCTGGCGTTGCAGCGCAATCGTGGCGGCTG	439
OY	301	LYSALAPHESEGLYLEUALAHISARGYSGINTRPVALARGIUAARGINGLYVALSER	320
Db	438	AAACGCTTTCGGCGCTGGCTCATCTCCGCAATGGGATGGAGCGAGGCGGCGGTGAGC	379
OY	321	TYRTYTRAPASSETLYSVALATHRSNVALGLYALALEUALALALIEGLUGLYLEU	340
Db	378	TACTACGAAAGATTCCAAAGGCCCAACCTCGGCGCCCGCTGGCGGAGATCGAGGGGCTG	319
OY	341	GLYALASPIIASPGLYLYSLEUVALLEULENULAGLYGLYASPGLYLYSGLYALASAP	360
Db	318	GGTGGCTACATGACCGCAACGTGCTGCTGCTCCCGCGGAGAGGGCAAGGGCGCGAT	259
OY	361	PHEHISAPLEUAIRGLUPROVALALALARPHECYSARGALAYALVALLEULEUGLYARG	380
Db	258	TTTCATGACCTCGCGGAGCGGTCGGCGGCTTCGCGGGGGGTGATGCTGTCGGCCG	199
OY	381	ASPAALAGLYLEULIEALAGLINALLEUGLYASNALAYALPROLEUVALARGVALALATHR	400
Db	198	GACCGCCGGCTATTGGCCAGGCACTGGGCAACCGGTACCGCTGGTGGCGCTGCGCAAG	139
OY	401	LEUASRGILALAYALARGLNALALAGLULEUNLALARGIUGLYASPAALAYALLEULEN	420
Db	138	CTGAGCAAGACGTCCCGGACCGCCCGAGCTGGCCCGCAAGCGCATGGGGTGGCTGTG	79
OY	421	SERPROVALCYASALASERLEUASPHKEPHELYSASNHEGLUGIUAARGLYARGLEUPE	440
Db	78	TCCGCCCGCTCGCGACCGCTTCACATGTTTCAAAGAACTTCGAAGAGCGGAGCGCTGTT	19
OY	441	ALALYSALINVALGLUGLU 446	
Db	18	GCCTAAACCTGTAGAGAG 1	

RESULT 3  
 US-09-252-991A-7787/c  
 : Sequence 7787, Application US/09252991A  
 : Patent No. 6551795  
 : GENERAL INFORMATION:  
 : APPLICANT: Marc J. Rubenfield et al.  
 : TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

```

: TITLE OF INVENTION: AERUJINOSA FOR DIAGNOSTICS AND THERAPEUTICS
:
: FILE REFERENCE: 107156.136
:
: CURRENT APPLICATION NUMBER: US/09/252,991A
:
: CURRENT FILING DATE: 1999-02-18
:
: PRIOR APPLICATION NUMBER: US 60/074,768
:
: PRIOR FILING DATE: 1998-02-18
:
: PRIOR APPLICATION NUMBER: US 60/094,190
:
: PRIOR FILING DATE: 1998-07-27
:
: NUMBER OF SEQ ID NOS: 33142
:
: SEQ ID NO 7787
:
: LENGTH: 567
:
: TYPE: DNA
:
: ORGANISM: Pseudomonas aeruginosa
:
: US-09-252-991A-7787

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Alignment Scores:	
Pred. No.:	1,73e-175
Score:	188.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	41.96%
DB:	4
Length:	567
Matches:	188
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

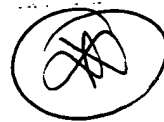
US-09-701-229-2 (1-448) x US-09-252-991A-7787 (1-567)

QY	242	LYALPHEG1LEU1LEI1LUG1LUSPGLY1LNTSTPLEUALAPHG1NPHASPLYS	261
Db	565	AAAGCTTGGCCTGATCGAGNAACGCCCAAGAGTGGCTTCCAGTTGCACAG	5086
QY	262	LEU1EUPROVALGLY1LEU1LUS1LEARG1YALH1SAENTYRSEASNA1AL2EUA1A	2811
Db	505	CTGCTCCGGTTGGCGAAGTCCGATCCGTGGCGCCCAACATATCCAAAGCGCTGCC	4466
QY	282	ALALEUAL1LEUG1YH1SA1AVALGLY1EUPROPHESAP1ALAMETLEUG1YAL1EULYS	3010
Db	445	GGCCTGGCCCTGGCCATCGGCTGGCGCTTGCAGCGCAATCTCGCGCGCTGACG	3866
QY	302	ALAPHESEGLY1LEU1ALH1ASRGYSG1NTRPVALARG1LUA1RG1NGLY1VAL1SER1TYR	3211
Db	385	GGCTTTTCCGGCCTGGCTATCGCTGCTGCCAGTGGTACCGACGCGGCGGTAGCTTAC	3266
QY	322	TYRASPASPSE1LYS1ALATHRAN1AVALGLY1ALALALEU1A1AL1EG1LUG1YLEUGLY	3411
Db	325	TACGACGATTCACAAAGCCACCAACGTCGGCGCCCTGGGGGAGATCGAAGGGCTTGGT	2666
QY	342	ALASP1LEASPGLY1LYS1LEU1VAL1LEU1EUAL1GLY1ASPGLY1LYSG1YAL1AASPHE	3611
Db	265	GCCGACATCGACGGCGAAGCTGGTGGTCCGCCCGCGAGACGGCAAGGGCGGATTTTC	2066
QY	362	H1ASP1LEU1ARG1LUPROVAL1ALH1ARGHEDYAS1ARG1AVAL1VAL1LEU1EUG1YARGASP	3811
Db	205	CATGACCTCGCGGAGCGGGTCCGGGCTTTCGCCGGGGGGTGGATACGCTTGGCCGGTAC	1466
QY	382	ALAGLY1LEU11ALAG1NAL1LEUG1LYS1NAL1VAL1PROLEU1VAL1ARGVAL1ALATH1LEU	4011
Db	145	GCGGGGCTATTTGCCAAGGCACTGGGCAACGGCGGTACCGCTGGTGGCGGTGCAAGCTG	866
QY	402	ASPG1LUAL1VAL1ARG1NAL1A1AG1LEU1EUAL1ARG1LUG1YASPA1VAL1LEU1SER	4211
Db	85	GACGAAGCAGTCCGGGACGGCCCGCAGAGTGGCCCGGACGAAGCGATGGCGTGTGTGTG	266
QY	422	PRO1ALCY1AL1SER1LEU1ASPMET	429
Db	25	CCGGCTCGCGCAGCTTGACATG	2

RESULT 4  
US-09-252-991A-7928/C  
; Sequence 7928, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

Db 2 GCCGGGCTGATTGCCACGACACGCGGTCACCGTGGTGGGCGCTCGGACGCTG

SEQ ID 1



RESULT 1  
 US-09-252-991A-7861/c  
 ; Sequence 7861, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 7861  
 ; LENGTH: 1401  
 ; TYPE: DNA  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-7861

Query Match 81.6%; Score 1183; DB 4; Length 1401;  
 Best Local Similarity 99.7%; Pred. No. 0;  
 Matches 1383; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	2	GTGCTGATCGGCCTCGCCACCTTGAAGCTGCGTTGAGGACGAAGAGAGCATGAGCCTGAT	61
Db	1387	GTGCTGATCGGCCTCGCCACCTTGAAGCTGCGTTGAGGACGAAGAGAGCATGAGCCTGAT	1328
Qy	62	CGCCTCCGACCACTTCCGCATCGTTGTCGGCCTCGGCAAGAGCGGCATGTCCCTGGTGCG	121
Db	1327	CGCCTCCGACCACTTCCGCATCGTTGTCGGCCTCGGCAAGAGCGGCATGTCCCTGGTGCG	1268
Qy	122	CTACCTGGCGCGCCGCGGCTTGCCTTTTCGCCGTGGTCGATACCCGAGAGAACCCGCCGGA	181
Db	1267	CTACCTGGCGCGCCGCGGCTTGCCTTTTCGCCGTGGTCGATACCCGAGAGAACCCGCCGGA	1208
Qy	182	GCTGGCCACCCTGCGTGCCAGTATCCGCAGGTGGAAGTGCCTTGCGGCGAACTCGACGC	241
Db	1207	GCTGGCCACCCTGCGTGCCAGTATCCGCAGGTGGAAGTGCCTTGCGGCGAACTCGACGC	1148
Qy	242	CGAGTTCCTCTGCTCCGCCCGCGAACTCTACGTCAGCCCCGGCTTGTGCTGCGCACCCC	301
Db	1147	CGAGTTCCTCTGCTCCGCCCGCGAACTCTACGTCAGCCCCGGCTTGTGCTGCGCACCCC	1088
Qy	302	TGCGCTGGTACAGGCCCGCGGAAAGCGGTGCGCATCTCCGGTGACATCGATCTCTTCGC	361
Db	1087	CGCGCTGGTACAGGCCCGCGGAAAGGTGCGCATCTCCGGTGACATCGATCTCTTCGC	1028

362 CCGCAGGCGAAGCCCCGATGTCGCCATACCGGGTTCACACGGGAAGACACCGTGAC 421  
 1027 CCGCAGGCGAAGCCCCGATGTCGCCATACCGGGTTCACACGGGAAGACACCGTGAC 968  
 422 CACCTGGTGGGCGAATAGGGGGGGCGCGGACAAAGGCTGTCCGCGTGGCGGCAACT 481  
 967 CACCTGGTGGGCGAATAGGGGGGGCGCGGACAAAGGCTGTCCGCGTGGCGGCAACT 908  
 482 CCGCAGGCGGCGTGCAGCTGCTGGCGGAGACATCAGCTGTAACGTGTGGAGCTGTC 541  
 907 CCGCAGGCGGCGTGCAGCTGCTGGCGGAGACATCAGCTGTAACGTGTGGAGCTGTC 848  
 542 GAGCTTCCAGCTGGAACCTCCGATCGCTCAACGCCAGGTGGCGACCGCTGTAACGT 601  
 847 GAGCTTCCAGCTGGAACCTCCGATCGCTCAACGCCAGGTGGCGACCGCTGTAACGT 788  
 602 CAGCGAACAACATATGATTCGCTACAGAGGATGCTGTAACCACTGGCGCAACGACCG 661  
 787 CAGCGAACAACATATGATTCGCTACAGAGGATGCTGTAACCACTGGCGCAACGACCG 728  
 662 GATCTTCGCGGTGCGCCGCGCAGTGCATGTAATCGCGGATGCGCTGACCGGACCGCT 721  
 727 GATCTTCGCGGTGCGCCGCGCAGTGCATGTAATCGCGGATGCGCTGACCGGACCGCT 668  
 722 GATCGCCGATACCGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 781  
 667 GATCGCCGATACCGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 608  
 782 CCGGCTGATTCAGAGAAAGCGCGCAGAAAGTGGCTGGCTGCTGCTGCTGCTGCTGCT 841  
 607 CCGGCTGATTCAGAGAAAGCGCGCAGAAAGTGGCTGGCTGCTGCTGCTGCTGCTGCT 548  
 842 GGTTCGCAACTGAAAGATCCGTGGCGGCCACACATATTCACAGCGGCGCGCGGCTGGC 901  
 547 GGTTCGCAACTGAAAGATCCGTGGCGGCCACACATATTCACAGCGGCGCGCGGCTGGC 488  
 902 GCTGGGCGCATCGGTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 961  
 487 GCTGGGCGCATCGGTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 428  
 962 CCGGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1021  
 427 CCGGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 368  
 1022 TTCCAAGGCGCAACACGTCGCGCGCGCGCTGCGCGCATCGAGGGGCTGGGTGCGCAT 1081  
 367 TTCCAAGGCGCAACACGTCGCGCGCGCGCTGCGCGCATCGAGGGGCTGGGTGCGCAT 308  
 1082 CGACGGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1141  
 307 CGACGGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 248  
 1142 GCGGAGCGCGTGCAGCGGCTTCTGCGGGGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1201  
 247 GCGGAGCGCGTGCAGCGGCTTCTGCGGGGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 188  
 1202 GATTGCCAGGCGACTGGGCAACGCGGTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1261  
 187 GATTGCCAGGCGACTGGGCAACGCGGTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 128  
 1262 AGTCCGGAGGCGCGCGAGCTGCGCGCGCGAGGAGGATGCGGTGCTGCTGCTGCTGCTGCT 1321  
 127 AGTCCGGAGGCGCGCGAGCTGCGCGCGCGAGGAGGATGCGGTGCTGCTGCTGCTGCTGCT 68  
 1322 CCGCAGGCGTGAACATGTTTCAAGAACTTCGAAGAACGCGGACGCTGTTGCGCAAGCGCT 1381  
 67 CCGCAGGCGTGAACATGTTTCAAGAACTTCGAAGAACGCGGACGCTGTTGCGCAAGCGCT 8  
 1382 AGAGGAG 1388  
 7 AGAGGAG 1

RESULT 2  
 US-09-252-991A-7702  
 ; Sequence 7702, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; PRIOR FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; NUMBER OF SEQ ID NOS: 3142  
 ; SEQ ID NO 7702  
 ; LENGTH: 1371  
 ; TYPE: DNA  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-7702

Query Match 80.5%; Score 1167; DB 4; Length 1371;  
 Best Local Similarity 99.7%; Pred. No. 0;  
 Matches 1367; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

27 AGCTGCTTGAAGCAGAGAGACATGACCTGATGCTCGGACACTTCGCGATCGTT 86  
 1 AGCTGCTTGAAGCAGAGAGACATGACCTGATGCTCGGACACTTCGCGATCGTT 60  
 87 GTGGGCGTGGCAGAGAGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 146  
 61 GTGGGCGTGGCAGAGAGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120  
 147 TTGGCGGTGTCATACCCGAGAAACCCCGGAGCTGGCCACCTGCTGCTGCTGCTGCT 206  
 121 TTGGCGGTGTCATACCCGAGAAACCCCGGAGCTGGCCACCTGCTGCTGCTGCTGCT 180  
 207 CCGCAGGTGAAAGTGGCTTGGCGGAACTGACACCGGATGCTGCTGCTGCTGCTGCTGCT 266  
 181 CCGCAGGTGAAAGTGGCTTGGCGGAACTGACACCGGATGCTGCTGCTGCTGCTGCTGCT 240  
 267 CTTATGTCAGCCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 326  
 241 CTTATGTCAGCCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
 327 GGGGTGGCATTCGCGGTGACATGATCTTTCGCGCGAGCGAAGCGCGCGATGCTGTC 386  
 301 GGGGTGGCATTCGCGGTGACATGATCTTTCGCGCGAGCGAAGCGCGCGATGCTGTC 360  
 387 GGCATACCGCGTTCGCAACCGGAGACACCGTTCACCACTGCTGGTGGCGAAATGGCGGTG 446  
 361 GGCATACCGCGTTCGCAACCGGAGACACCGTTCACCACTGCTGGTGGCGAAATGGCGGTG 420  
 447 GCGCGGACAAAGCGTGTGCGCGTGGCGGCAACCTGCGACCCCGCGCTGCACTGCTG 506  
 421 GCGCGGACAAAGCGTGTGCGCGTGGCGGCAACCTGCGACCCCGCGCTGCACTGCTG 480  
 507 GCGGACGACATCGACGCTGTAAGTGTGAGCTGTGAGCTTCCAGCTGGAACCTGCGAT 566  
 481 GCGGACGACATCGACGCTGTAAGTGTGAGCTGTGAGCTTCCAGCTGGAACCTGCGAT 540  
 567 CCGCTAACCGCGAGGTGGGAGCGGTAAGAGTGTGAGGAAAGCAATGATGATGCTGCTAC 626  
 541 CCGCTAACCGCGAGGTGGGAGCGGTAAGAGTGTGAGGAAAGCAATGATGATGCTGCTAC 600  
 627 GACGGATGAGCTGACTACACCTGAGGCAACCGGATCTTCCGCGTCCCGCGCAGCTG 686  
 601 GACGGATGAGCTGACTACACCTGAGGCAACCGGATCTTCCGCGTCCCGCGCAGCTG 660  
 687 GTGGTAATGCCCGCGCATGCCCTGACCCGACCGGATGATGCGGATACCGTGGCTGCTGG 746  
 661 GTGGTAATGCCCGCGCATGCCCTGACCCGACCGGATGATGCGGATACCGTGGCTGCTGG 720

Query Match	39.1%	Score 567	DB 4	Length 567
Best Local Similarity	100.0%	Pred. No. 1e-251		
Matches 567	Conservative 0	Mismatches 0	Indels 0	Gaps 0

DB	Sequence	Score	DB 4	Length	DB 5	Length	DB 6	Length	DB 7	Length	DB 8	Length	DB 9	Length	DB 10	Length	DB 11	Length	DB 12	Length	DB 13	Length	DB 14	Length	DB 15	Length	DB 16	Length	DB 17	Length	DB 18	Length	DB 19	Length	DB 20	Length	DB 21	Length	DB 22	Length	DB 23	Length	DB 24	Length	DB 25	Length	DB 26	Length	DB 27	Length	DB 28	Length	DB 29	Length	DB 30	Length	DB 31	Length	DB 32	Length	DB 33	Length	DB 34	Length	DB 35	Length	DB 36	Length	DB 37	Length	DB 38	Length	DB 39	Length	DB 40	Length	DB 41	Length	DB 42	Length	DB 43	Length	DB 44	Length	DB 45	Length	DB 46	Length	DB 47	Length	DB 48	Length	DB 49	Length	DB 50	Length	DB 51	Length	DB 52	Length	DB 53	Length	DB 54	Length	DB 55	Length	DB 56	Length	DB 57	Length	DB 58	Length	DB 59	Length	DB 60	Length	DB 61	Length	DB 62	Length	DB 63	Length	DB 64	Length	DB 65	Length	DB 66	Length	DB 67	Length	DB 68	Length	DB 69	Length	DB 70	Length	DB 71	Length	DB 72	Length	DB 73	Length	DB 74	Length	DB 75	Length	DB 76	Length	DB 77	Length	DB 78	Length	DB 79	Length	DB 80	Length	DB 81	Length	DB 82	Length	DB 83	Length	DB 84	Length	DB 85	Length	DB 86	Length	DB 87	Length	DB 88	Length	DB 89	Length	DB 90	Length	DB 91	Length	DB 92	Length	DB 93	Length	DB 94	Length	DB 95	Length	DB 96	Length	DB 97	Length	DB 98	Length	DB 99	Length	DB 100	Length	DB 101	Length	DB 102	Length	DB 103	Length	DB 104	Length	DB 105	Length	DB 106	Length	DB 107	Length	DB 108	Length	DB 109	Length	DB 110	Length	DB 111	Length	DB 112	Length	DB 113	Length	DB 114	Length	DB 115	Length	DB 116	Length	DB 117	Length	DB 118	Length	DB 119	Length	DB 120	Length	DB 121	Length	DB 122	Length	DB 123	Length	DB 124	Length	DB 125	Length	DB 126	Length	DB 127	Length	DB 128	Length	DB 129	Length	DB 130	Length	DB 131	Length	DB 132	Length	DB 133	Length	DB 134	Length	DB 135	Length	DB 136	Length	DB 137	Length	DB 138	Length	DB 139	Length	DB 140	Length	DB 141	Length	DB 142	Length	DB 143	Length	DB 144	Length	DB 145	Length	DB 146	Length	DB 147	Length	DB 148	Length	DB 149	Length	DB 150	Length	DB 151	Length	DB 152	Length	DB 153	Length	DB 154	Length	DB 155	Length	DB 156	Length	DB 157	Length	DB 158	Length	DB 159	Length	DB 160	Length	DB 161	Length	DB 162	Length	DB 163	Length	DB 164	Length	DB 165	Length	DB 166	Length	DB 167	Length	DB 168	Length	DB 169	Length	DB 170	Length	DB 171	Length	DB 172	Length	DB 173	Length	DB 174	Length	DB 175	Length	DB 176	Length	DB 177	Length	DB 178	Length	DB 179	Length	DB 180	Length	DB 181	Length	DB 182	Length	DB 183	Length	DB 184	Length	DB 185	Length	DB 186	Length	DB 187	Length	DB 188	Length	DB 189	Length	DB 190	Length	DB 191	Length	DB 192	Length	DB 193	Length	DB 194	Length	DB 195	Length	DB 196	Length	DB 197	Length	DB 198	Length	DB 199	Length	DB 200	Length	DB 201	Length	DB 202	Length	DB 203	Length	DB 204	Length	DB 205	Length	DB 206	Length	DB 207	Length	DB 208	Length	DB 209	Length	DB 210	Length	DB 211	Length	DB 212	Length	DB 213	Length	DB 214	Length	DB 215	Length	DB 216	Length	DB 217	Length	DB 218	Length	DB 219	Length	DB 220	Length	DB 221	Length	DB 222	Length	DB 223	Length	DB 224	Length	DB 225	Length	DB 226	Length	DB 227	Length	DB 228	Length	DB 229	Length	DB 230	Length	DB 231	Length	DB 232	Length	DB 233	Length	DB 234	Length	DB 235
----	----------	-------	------	--------	------	--------	------	--------	------	--------	------	--------	------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------



Query 1133 CCATGACCTGGGCGAGCGCGCTTCTGCGGCGGCTGTACTGCTTGGCCGTGA 1192  
|||||  
Db CCATGACCTGGGCGAGCGCGCTTCTGCGGCGGCTGTACTGCTTGGCCGTGA 385  
Query 1193 GCGCGGCTGATTCGCCAGGACATGCGCAACGCGTACCGCTGTGCGCGCCGCAAGCT 1252  
|||||  
Db GCGCGGCTGATTCGCCAGGACATGCGCAACGCGTACCGCTGTGCGCGCCGCAAGCT 325  
Query 1253 GGAGGAAGCACTCCGGCAGCGCGCGGAGCTGGCCCGGGAAGGCGATCGGTGTGTC 1312  
|||||  
Db GGAGGAAGCACTCCGGCAGCGCGCGGAGCTGGCCCGGGAAGGCGATCGGTGTGTC 265  
Query 1313 GCGCGGCTGGCGGCGCTTGACATGTTCAAGAACTTCAAGAACGCGGAGCTTTCGC 1372  
|||||  
Db GCGCGGCTGGCGGCGCTTGACATGTTCAAGAACTTCAAGAACGCGGAGCTTTCGC 205  
Query 1373 CAAAGCCGTAGAGAGCTAGCTGATGCTGTGCGGCGCTTCCGCTGCGCGCTG 1432  
|||||  
Db CAAAGCCGTAGAGAGCTAGCTGATGCTGTGCGGCGCTTCCGCTGCGCGCTG 145  
Query 1433 TTGAGCGGCGACCGCATC 1450  
|||||  
Db TTGAGCGGCGACCGCATC 127

## RESULT 5

US-09-252-991A-7624  
; Sequence 7624, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 7624  
; LENGTH: 1359  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-7624

Query Match 17.8%; Score 258; DB 4; Length 1359;  
Best Local Similarity 100.0%; Pred. No. 1,16e-109; Indels 0; Gaps 0;

Matches 258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1193 CCCCCGGGTGATTCGCCAGGACATGCGCAACGCGGTACCGTGTGCGCGTGCNAAGCT 1252  
|||||  
Db CCCCCGGGTGATTCGCCAGGACATGCGCAACGCGGTACCGTGTGCGCGTGCNAAGCT 60  
Query 1253 GGAGGAAGCACTCCGGCAGCGCGCGGAGCTGGCCCGGGAAGGCGATCGGTGTGTC 1312  
|||||  
Db GGAGGAAGCACTCCGGCAGCGCGCGGAGCTGGCCCGGGAAGGCGATCGGTGTGTC 120  
Query 1313 GCGCGGCTGGCGGCGCTTGACATGTTCAAGAACTTCAAGAACGCGGAGCTTTCGC 1372  
|||||  
Db GCGCGGCTGGCGGCGCTTGACATGTTCAAGAACTTCAAGAACGCGGAGCTTTCGC 180  
Query 1373 CAAAGCCGTAGAGAGCTAGCTGATGCTGTGCGGCGCTTCCGCTGCGCGCTG 1432  
|||||  
Db CAAAGCCGTAGAGAGCTAGCTGATGCTGTGCGGCGCTTCCGCTGCGCGCTG 240  
Query 1433 TTGAGCGGCGACCGCATC 1450  
|||||  
Db TTGAGCGGCGACCGCATC 258

## RESULT 6

US-09-252-991A-7552  
; Sequence 7552, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 7552  
; LENGTH: 360  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-7552

Query Match 11.0%; Score 160; DB 4; Length 360;  
Best Local Similarity 99.5%; Pred. No. 2.3e-64;  
Matches 210; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Query 61 TGCCCTCGACACACTTCCGCATGCTGTGCGCTCGGCAAGCGGATGCTCCGTGTC 120  
|||||  
Db TGCCCTCGACACACTTCCGCATGCTGTGCGCTCGGCAAGCGGATGCTCCGTGTC 60  
Query 121 GCTACTGGCGGCGCGGCTTGCCTTTCGCGGTGATACCGAGAAACCGCGCG 180  
|||||  
Db GCTACTGGCGGCGCGGCTTGCCTTTCGCGGTGATACCGAGAAACCGCGCG 120  
Query 181 ACTGCGCACCTCGGTGCGGCAATCCGACAGTGAAGTGTGCGGCAACTGACG 240  
|||||  
Db ACTGCGCACCTCGGTGCGGCAATCCGACAGTGAAGTGTGCGGCAACTGACG 180  
Query 241 CCGAGTCTCTGCTCGCGCGCGGCAACTCTA 271  
|||||  
Db CCGAGTCTCTGCTCGCGCGCGGCAACTCTA 211

## RESULT 7

US-09-252-991A-7929/c  
; Sequence 7929, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 7929  
; LENGTH: 1170  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-7929

Query Match 8.3%; Score 120; DB 4; Length 1170;  
Best Local Similarity 100.0%; Pred. No. 5.5e-46;  
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 2 GTGCTGATGCGGCTCGGCACTTGAAGCTGCTTGAAGAGAGAGAGATGACCTGAT 61  
|||||  
Db GTGCTGATGCGGCTCGGCACTTGAAGCTGCTTGAAGAGAGAGAGATGACCTGAT 61

```
QY      62  CGCCTCGACACTTCGCGATGTCGCGCCCTGCGCAAGAGCGGCGATGCCGTGCGG 121
Db      60  CGCCTCGACACTTCGCGATGTCGCGCCCTGCGCAAGAGCGGCGATGCCGTGCGG 1

RESULT 8
US-09-252-991A-7860/c
; Sequence 7860, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 7860
; LENGTH: 1287
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-7860

Query Match
Best Local Similarity 100.0%; Score 62; DB 4; Length 1287;
Matches 62; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1389  CTAGCGTGAAGTGTGCTGTTGCGCCCTGCGCGCTGTGAGCCGCGACGCGA 1448
Db      1287  CTAGCGTGAAGTGTGCTGTTGCGCCCTGCGCGCTGTGAGCCGCGACGCGA 1228

QY      1449  TC 1450
Db      1227  TC 1226

RESULT 9
US-09-252-991A-7623
; Sequence 7623, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 7623
; LENGTH: 1404
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-7623

Query Match
Best Local Similarity 100.0%; Score 36; DB 4; Length 1404;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2  GTGCTATCGGCGCTCCGCACTTGAAGCTGCGTTGA 37
Db      1369  GTGCTATCGGCGCTCCGCACTTGAAGCTGCGTTGA 1404

RESULT 10
US-09-252-991A-9277
; Sequence 9277, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 9277
; LENGTH: 204
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-9277

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 204;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      821  CCAGTTCGACAAAGCTGCTG 839
Db      138  CCAGTTCGACAAAGCTGCTG 156

RESULT 11
US-09-252-991A-1743/c
; Sequence 1743, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 1743
; LENGTH: 405
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1743

Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 405;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1040  CGGCGCGCGCCCTGCGCGCG 1058
Db      98  CGGCGCGCGCCCTGCGCGCG 80

RESULT 12
US-09-252-991A-12452/c
; Sequence 12452, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
```

PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 12452  
LENGTH: 414  
TYPE: DNA  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-12452

Query Match 1.3%; Score 19; DB 4; Length 414;  
Best Local Similarity 100.0%; Pred. No. 18;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 821 CCAAGTCGACAGCTGCTG 839  
DB 255 CCAAGTCGACAGCTGCTG 237

RESULT 13  
US-09-252-991A-8304

Sequence 8304, Application US/09252991A  
Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

PRIOR FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 8304

LENGTH: 489

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-8304

Query Match 1.3%; Score 19; DB 4; Length 489;  
Best Local Similarity 100.0%; Pred. No. 18;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 821 CCAAGTCGACAGCTGCTG 839

DB 423 CCAAGTCGACAGCTGCTG 441

RESULT 14  
US-09-072-596-263

Sequence 263, Application US/09072596  
Patent No. 6458366

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Skelky, Yasir A.W.

APPLICANT: Dillon, David C.

APPLICANT: Campos-Neto, Antonia

APPLICANT: Houghton, Raymond

APPLICANT: Vedvick, Thomas S.

APPLICANT: Twardzik, Daniel R.

APPLICANT: Lodes, Michael J.

APPLICANT: Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/072,596  
FILING DATE: 05-MAY-1998  
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: MAKI, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.417C9

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 263:

SEQUENCE CHARACTERISTICS:

LENGTH: 522 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

US-09-072-596-263

Query Match 1.3%; Score 19; DB 4; Length 522;  
Best Local Similarity 100.0%; Pred. No. 18;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1082 CGAGGCGACAGCTGCTGCTG 1100

DB 429 CGAGGCGACAGCTGCTGCTG 447

RESULT 15  
US-09-252-991A-13195

Sequence 13195, Application US/09252991A  
Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

PRIOR FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 13195

LENGTH: 723

TYPE: DNA

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-13195

Query Match 1.3%; Score 19; DB 4; Length 723;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 821 CCAAGTCGACAGCTGCTG 839

DB 216 CCAAGTCGACAGCTGCTG 234

Search completed: August 14, 2003, 07:06:19  
Job time: 117 secs

